

Figure 1

SEQ ID NO:1

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GCTGTGGCCACGTCGCCCTGGGTGACCTTCCTCAGATGTGGACTTGGCCCTGAGCATCCT
TCCACCAGGCCCCCTCGCCTGGGTACCATCGAGAAATGCCCGCCTTTGTGTCCAAGTGACA
GCGCAGAGGCAGCTTCCGCTACCGAGATCATCTTCTGGGTACCCGAGTTTCCAGACCAC
TTCTCTTTCCAGCTCTCATGGGAACCACAGAAGCTACACTAAGGATGGAAAATGTGGACG
TGAGGGATGAATGGCAGGATGAGGATCTGCCCAGACCGCTCCCAGAAGACACCGGGGTGG
AGCGGCTGGGTGGCGCAGTGGAAGACTCCTCCTCACCCTCCCTCCACCCTGAACTTGAGCG
GAGCACATCGAAAGAGAAAGACGCTGGTGGCTCCAGAGATCAACATCTCCCTGGACCAAA
GCGAGGGCTCTCTGCTGTCCGACGACTTCCTCGACACACCTGATGACCTGGACATCAATG
TGGACGACATTGAGACGCCAGATGAACTGACTCT
CTGGAGTTCTTGGGAAATGGCAATGAACTTGAGTGGGAAGATGACAC
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TGCGGAAGACGGCAGTGCGGCCAACGGTCGTCTGTGGCGAACTGTCATCATAGGGGAGCA
AGAGCATCGCATCGACCTGCATATGATCCGGCCCTACATGAAGGTGGTCACCCATGGAGG
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CAGCTCCCCAGACTATCACTACATCATGGAGAATCTCTTCCTGTACGTCATCAGCAGCCT
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CATCTCCCGGCCATTTCATCAGTGTCAAGTTTCATCAGTAAAATTCAGTACGTGCACAGCCT
GGAAGAGCTGGAGCGACTGATTCCCATGGAACACGTGCAGCTGCCAGACTGTGTCTGCA
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GCCTCCACCGCCTGAGGATGCCTGGCTCCACCATGTCCCCTGCACCCGGGTCTCTCACT
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GAGCAGGTTCTTGACCCTTTACAGTCTGGGCTTGTGGATGCCAAAGGTGGATGTGG
GCAGTGCCACCCACGGTTACTCTTCCAGGCCTTGGCATCCCCAAGATGCCCTTCTCTGTC
CCAGCTAGGATAACACAGATATGCATTTTGGGCTGACCCAATGAGAGACCCTTTGCTCGG
TTGCCACCTGTCCCTAGCTGGAGCCTCAGATGTCTGGTGGCCCTGGCTGCAGCTGCATCT
GCTTCTCTGTGGAATGTGACCCACTGTCCCCTCTCCCTGCCACCCAGGCAGGGTTGTGA
CTGCTGACCTCACATCTCCACCTGACATGCACTATTCTGCCATTTGACTGTCTTTGGGGG
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GCTCCTTTAAAGTAGATGTGACTCCAAAAAAAAAAAAAAAAAAAAAAAAA

Figure 2
SEQ ID NO:2

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TAKNMPGDSADLFGDGS AEDGSAANGRLWRTVIIGE QEHRIDLHMIRP YM
KVVTHGGYYGEGLNAIIVFAACFLPDSSSPDYHYIMENLFLYVISSLELL
VAEDYMIVYLN GATPRRRMPGIGWLKKCYH MIDRRLRKNLKS LIIVHPSW
FIRTVLAISRPFISVKFISKIQYVHSLEELERLIPMEHVQLPDCVLQYEE
QRLRAKRESTRPPQPEFLLPRSEEK PETVEEEDRAAEATEDQETSMS

Figure 3

SEQ ID NO:3

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121  cctgcacccc acccaccctt gcacaaaaga gctggcgggc gctggccacg tcgccctggg
181  tgaccttctt cggatgcaga atccgcccct gcgagcatcc tcttctctct aggctctgaa
241  ggcccgggga gcgtgagcga tgcccagctg caccggggca gggctcgctt ttgtttgcca
301  gtaaggagga gaggtgtctt cagctgcaga ggggtcatcc ctgcttcaag ccagtgcctc
361  ttcccagctc ccatggggac caccgaagcc acgctccgga tggaaaacgt ggacgtgaag
421  gaggaatggc aggacgaaga tcttcccagg ccaactccag aagagacggg ggtggaactg
481  cttggcagcc cgggtggaaga cacatctctt cctcccaaca cgctaaattt caacggagcg
541  catcgtaaga ggaagacgct ggtggcccca gagatcaaca tttctctgga tcagagtgaag
601  ggggtcctgc tgtccgatga cttcttggtt accctgatg acctggatat taacgtggat
661  gacatcgaga ccccgatga gaccgactcg ctggagttcc tggggaatgg caacgaactg
721  gagtgggaag acgacacccc cgtggccacc gccagaaca tggccgggga cagcgcggat
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901  gtggtcaccc acggagggtt ctacggcgaa ggctcaacg ccatcatcgt cttcgcagcc
961  tgcttctctt cagacagcag cctccccgac taccactaca tcatggagaa cctcttcttg
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1321 ccagactgcg tcttgcaata cgaagaggaa agactgaagg ccaggaggga gagcgcgagg
1381 ccccgccggg agtttgtgct gcccaggtct gaagagaagc cagaggtggc accagtggaa
1441 aacaggtctg ctctggtctc agaagatcag gaaacaagca tgtctgagg cgacgtgagc
1501 ataacaaagg acatggaaga agattccaga tgccagaaaa cctctgtcag acgcccactg
1561 gccccagatc tcatctgccc tcactctgag tcccaatctt ccaagggtgc cagccccctc
1621 gttcatctct gaaacccagc atccttttca gctgcttgaa aacattgtat tttttttttt
1681 taacgatgca gtatttgtgc gttccagaaa agggccagc tctgagcccc tcaccttccc
1741 aactcacga actctcagcc gaggaaggca agaagcgag ggggtggccc gcgtggcgct
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1861 cttctcttgc ttgtcacccg ctccaggttg gagccacaga caccacccgc caccgggt
1921 gggctctgct cctttctgtt gcctttccct ccagaatgcg gcctcagacc tagaagctca
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2761 ggcgtggtgg caggtgcctg taatcccagc tacttgggag gctgaggcat gagaatcact
2821 taaacctgag aggcagaggt tacagtgagc caagatcgtg ccactgcatt ccagcctggg
2881 cgacagagca agactctgtc tcaaaaaaaaa aaaaaaaaaa

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Figure 4
SEQ ID NO:4

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TVIIGEQEHRIDLHMIRPYMKVVTHGGYYGEGLNAIIVFAACFLPDSSLPDYHYIMEN
LFLYVISSLELLVAEDYMIVYLNATPRRRMPGIGWLKKCYQMIDRRLRKNLKSLIIV
HPSWFIRTVLAISRPFISVKFINKIQYVHSLEDLEQLIPMEHVQIPDCVLQYEEERLK
ARRESARPQPEFVLPRSEEKPEVAPVENRSALVSEDQETSMS

Figure 5

Figure 6

1 huKIAA1872	MGTTAATLRMENVDV	KEEWODEDLPRPLPE	ETGVELLGSPVEDTS	SPPNTLNFNGAHRKR	KTLVAPEINISLDQS	EGSLLSDDFLDTPDD
2 Macaque	MGTTAATLRMENVDV	KEEWODEDLPRPLPE	ETGVELLGSPVEDTS	SPPNTLNFNGAHRKR	KTLVAPDINISLDQS	EGSLLSDDFLDTPDD
3 mujittery	MGTTAATLRMENVDV	RDEWODEDLPRPLPE	DTGVERLGGAVEDSS	SPPSTINLSGAHRKR	KTLVAPEINISLDQS	EGSLLSDDFLDTPDD
4 huBNIP2	-----MEGVEL	KEEWODEDFPIPLPE	DDSIEADILAITGPE	DQPGSLEVN-GNKVR	KKLMAPDISLTLDPS	DGSVLSDDLDDES----
5 muNIP2	-----MEGVEL	KEEWODEDFPIPLPE	DDSIEADILAITGPE	DQPGSLEVN-GNKVR	KKLMAPDISLTLDPS	DGSVLSDDLDDES----
91	105 106	120 121	135 136	150 151	165 166	180
1 huKIAA1872	LDINVDDIETPDDET	SLEFLNGNELEWED	DTPVATAKNMPGDSA	DLFGDGTTEDEGSAAN	GRLWRTVIIIGEQEHR	IDLHMIRPYMKVWVTH
2 Macaque	LDINVDDIETPDDET	SLEFLNGNELEWGD	DTPVATAKNMPGDSA	DLFGDGTTEDEGGAAN	GRLWRTVIIIGEQEHR	IDLHMIRPYMKVWVTH
3 mujittery	LDINVDDIETPDDET	SLEFLNGNELEWED	DTPVATAKNMPGDSA	DLFGDGAEDGSAAN	GRLWRTVIIIGEQEHR	IDLHMIRPYMKVWVTH
4 huBNIP2	GEIDLGLDTPSE--	-----NSNEFEWED	DLPKPKTTEVIRKGS	ITEYTAAREK----	GRRWRMFRIGEQRHR	VDMKAIEPYKKKVISH
5 muNIP2	GEIDLGLDTPSE--	-----NSNEFEWED	DLPKPKTTEVIRKGS	ITEYTAAREK----	GRRWRMFRIGEQRHR	VDMKAIEPYKKKVISH
181	195 196	210 211	225 226	240 241	255 256	270
1 huKIAA1872	GGYGGEGLNAIIVFA	ACFLPDSSSLPDYHYI	MENLFLYVISSLELL	VAEDYMIIVYLNATP	RRRMPGIGWLKKCYQ	MIDRRRLRKNLKSII
2 Macaque	GGYGGEGLNAIIVFA	ACFLPDSSSLPDYHYI	MENLFLYVISSLELL	VAEDYMIIVYLNATP	RRRMPGIGWLKKCYQ	MIDRRRLRKNLKSII
3 mujittery	GGYGGEGLNAIIVFA	ACFLPDSSSPDYHYI	MENLFLYVISSLELL	VAEDYMIIVYLNATP	RRRMPGIGWLKKCYH	MIDRRRLRKNLKSII
4 huBNIP2	GGYGGEGLNAIIVFA	VCFMPESQPNRYL	MONLFKYVIGTLELL	VAENYMIIVYLNATP	RRKMPSLGLWLRKCYQ	QIDRRRLRKNLKSII
5 muNIP2	GGYGGEGLNAIIVFA	VCFMPESQPNRYL	MONLFKYVIGTLELL	VAENYMIIVYLNATP	RRKMPSLGLWLRKCYQ	QIDRRRLRKNLKSII
271	285 286	300 301	315 316	330 331	345 346	360
1 huKIAA1872	VHPSWFIRTVLAISR	PFISVKFINKIQYVH	SLEDLEQLIPMEHVQ	IPDCVLQYEEERLKA	RRESARP-QPEFVLP	RSEEKPEVAPVENRS
2 Macaque	VHPSWFIRTVLAISR	PFISVKFINKIQYVH	SLEDLEQLIPMEHVQ	IPDCVLQYEEERLKA	RRESARP-QPEFVMP	RSEEKPEVAPVENRS
3 mujittery	VHPSWFIRTVLAISR	PFISVKFISKIQYVH	SLEELERLIPMEHVQ	LPDCVLQYEEERLKA	KRESTRPPQPEFLP	RSEEKPEVTEEDRA
4 huBNIP2	VHPSWFIRTLLAVTR	PFISSKFSQKIRYVF	NLAELAEVLPMYVVG	IPECIKQVDQELNGK	QDEPKNEQ-----	-----
5 muNIP2	VHPSWFIRTLLAVTR	PFISSKFSQKIRYVF	NLAELAEVLPMYVVG	IPECIKQVDQELNGK	QDEPKNEQ-----	-----
361	375					
1 huKIAA1872	ALVSEDQETSMS	371				
2 Macaque	APVTEDETSMS	371				
3 mujittery	AEATEDQETSMS	372				
4 huBNIP2	-----	314				
5 muNIP2	-----	314				

Figure 7

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Table: Kyte & Doolittle
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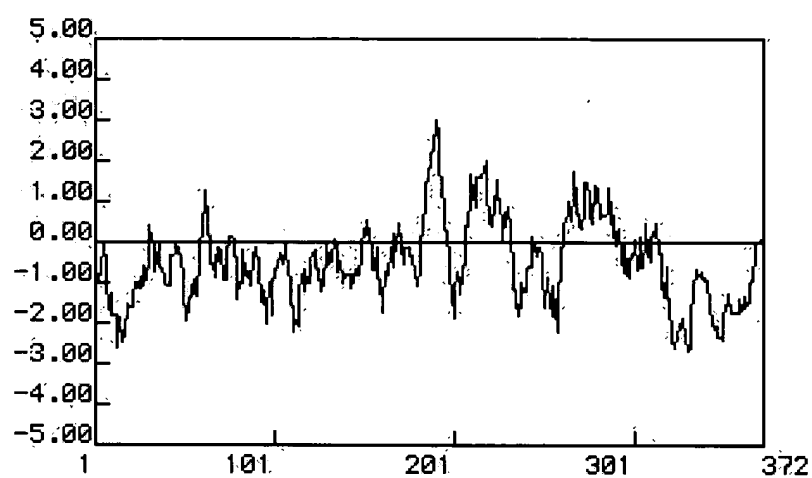


Figure 8

SEQ ID NO:8

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481 cttggcagcc cgggtggaaga cacatcctct cctcccaaca cgctaaattt caacggagcg
541 catcgtaaga ggaagacgct ggtggcccca gagatcaaca tttctctgga tcagagtga
601 ggggtccctgc tgtccgatga cttcttggat acccctgatg acctggatat taacgtggat
661 gacatcgaga ccccgatga gaccgactcg ctggagtctc tggggaatgg caacgaactg
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781 ctatttgggg acggcacgac ggaggacggc agcgccgcca acgggcgctt gtggcgga
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Figure 9
SEQ ID NO:9

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Figure 10

SEQ ID NO:10

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Figure 11
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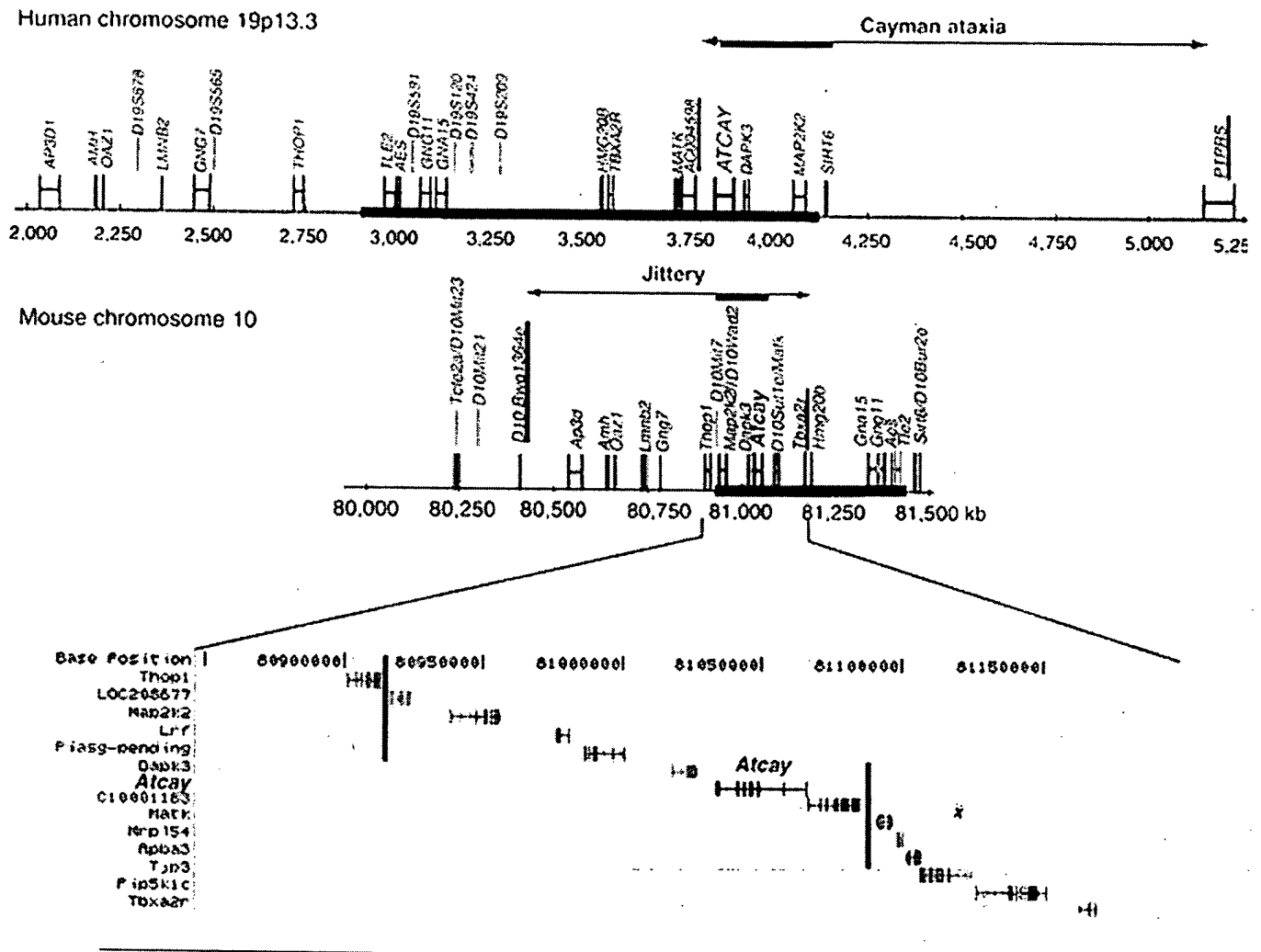
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cgagatcatg	ccactgcact	ccagcgtggg	tgacagagca	agactctgtc	tcaaaaaaaaa
aaaaaaaaata	attagccagg	tgtggtggca	tgcgcctgta	gttcagctac	ttgcaggggag
actgaatcgg	gacgactgct	tgagcccagg	aagttgaggc	tgcagtgagc	catgattgta
ccattgcact	ccagcctggg	caacagagca	agatcctgtc	tcaaaaaaaaa	aaacaaaaaa
aaacagcctt	tatcatgcc	ggtccaatgc	cagctttgag	ggaaacagag	gcaataaaga
cagagtcttg	gtcccagaag	ttttctcaaa	tagcaaaggc	agggaacatc	tactggtttt
ggaaaacagg	tcccagggga	caggaaaacc	agagaggcca	gtactagctg	agagcccacc
ccttggcctg	gctgggctag	tcaccttgt	cacctcgttc	tctctgtcca	cagcgcgagg
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aacaggtagg	tgtgcagggg	accatgggca	gagagctgac	agtcacggga	ggctgcctac
tccttggggg	gaggctagag	aggaagatgg	gtccttgttc	agggaacagaa	aatggaacta
agtggccggc	catggtggct	cacgcctgta	atcccagcac	tttgggaggc	cgaggtgggc
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actaaaaata	caaaaattag	ctggacatgg	tggctcacat	ctgtaatccc	agctacttgg
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gtaccactgc	actcggcgac	aaagtgagac	tccatctcaa	aaaaataaat	aaacaaataa
aataaaaaata	aaaattatcg	gccgggtgtg	gtggctcacg	cctgtaatcc	cagtagtttg
ggaggctgag	gtgggcccag	cacaaggcca	agagatcgag	accagcctgg	ccaacatggt
gaaaccccat	ctcttctaaa	aatacaaaaa	ttagctgggc	atggtggctc	gtgcctgtag
tcccacctac	ttggaaggct	gaggcaggag	aatcacttga	acctgggagg	cggaggttgc
agtgagccga	gatcagacca	ctgcactcca	gcctggcgac	agaatgagat	tctgtctcaa

aaataaataa ataaataaat atcatccagg tgtggtgatg tacacctcta gtccagctac
tcagaagggt gaggcaggca gatggctgga gcccaggagg tcaaggctac agcaagctat
gactgcactc cagcctgggc aacagagcaa gacctgtct caaaaaaaaaa aaaaaagtta
tcatgatgtt ctcatattat cgcaatctca atgttatcat aatgatgaaa ggtgaccttt
gtccagggtcc cagcaggtag attcagactc ccccaatcca gtagacctg agcaacatta
ttggcttcat tttatgttag tgaagggcct tggccaattt cctcaaaact gtctgtttgg
gtcattttgt tacgcagcag atgcacgctg acatctgttt tgtaccagat acagcagtgt
cggctctcat agggcttaca gcctccacga acaggtagaa aatgcccaag aatgggcact
gtggctcacg cctgtaatcc cagcactttc ggaggccaaa gcaggaggac catttgagggt
caggagtctg agaccaactt gggcaacata ttgagactcc atctctacaa aaagtttaaa
agttagccag gcatgatggt gtataccttg tagtcccagc tacttgggag gctgagggtg
gaggatcact tgagcccgga gctggaagct gcagtgaacc atgattgcac cactgcctc
cagcctgggc aacataacaa gacctgtat cttttttttt tttttaagac agattttcac
tcttgtcgcc caggggccag agtgcaatgg tgcgatcttg gctcactgca acctccacct
cccgggttca agcgattctc ctgcctcagc ctcccagta gctgggatta caggcaccca
ccaccacacc cggctaattt ttgtattttt agtagagaca ggggtttacc atgttggcca
ggctggtctc gaactcctga cctcaagtga tccaccacc tccagctccc aaagtgtggt
gattataggc atgagccact gcacccagcc aagacctgt atcttaataa taataaataa
ataaaaaataa aataagttaa agaaaaaaaaa gggaaaatgc ccaggctccc aaaaaataagc
aaataacgcc cagtctccgt ctctcctcca caggctctgt ctggtctcag aagatcagga
aacaagggtg gtgtgatgca gagtgtctt cgtgctgttt tcaaaatgtc ctcatggac
ctgtattagt cagggttctc tagaaggaca gaaaatcaaa ccagctgcca gcaaatataa
agcaggcagg gatcctaate ccaggaaaac tgccccatga cttatcgga gtgggggata
cggcacccggg aaggcaggga ggtagtgtt ccttaacca gtcaggccgt ccttcacaa
ctccaggggg gcaccattac ctgaccagg atgcaaatga ggccccagag ttatgcagt
gagcggccct cagggaaaaa cccacacaga gccaaagctc ctgaagccca ggatatgata
ccacaaaagg gtagactgtc cagctctgc ctccgattct ccacctgggt ctggatgcca
agaaaagcct cctgtggcc gggcgagcg tctcacgct gtaatccag cactttggga
ggcggaggca ggcggatcat ttgaggtcag gagtccaaga ccagcctggg caacatggca
agacccgctc cctaaaaaaa atacaaaaat tagccagggt agccaagatc gtaccactgc
actccacagc ctgggcaata gggctagact ttgtctcaaa aaaagaaaaa aaaaaggaaa
gaaaagaaaa gcctccctgt gtgttgatgt ccaagggtat cctcaggcac aatggtttgc
cagaaggact cacagagctc agcaaagctg tcatactcac agttatgggt tatcacagt
gcatggttta ttacagtaga aggttacagt taaaaatcag cagagttggg tgtggtggct
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ggcaacagag caagactctg tttaaaaaaaa aaaaaacaaa aaaacaaaaa acttaacaaa
aggaagaggt gcatagggtt ggatccagga gagatcgggt ggaagcctgc aagtgtcctc
tcccagtggt gttgtgtgga cagcctttat ttctcccagc agggatgtgt ggcaaacac
acaaagtgtt gccactaga gaagctgacc caagcctttc tagccagggt gtttatagag
agtcaactac atacacctgg ctgactgtct gcatggcttt tcttagcctc cagcccctgc
acagatcaag ctgatgccac gtggcccaag ttccaacctt aagtcacgtt gtgagtgtta
ttagtccatt ctcatgctgc tatgaagaaa taccacagac cgggtaaatt ataaagaaaa
gaggtttaat tgactcacag ttctgcatgg ctggggaggc cccgggaat ttataatcct
ggcgggaaggc acctcttcac caggcagcag gacgagaag tgctgagcaa aggggggaaa
gccccttata aaaccatcag atctcgtgag aactcactac cagagaaca gcatggagggt
agccgcccc atggttcagt tacctcccac tgagtaccgc ccacgacaag tggggttatg
ggaactacaa ttcaagatga gatttgggtg gggacacagc ccaaccatat cagttagcat
agactatctg gcatgacca catagacact ccagccagga tgctccaaga gtttagaagt
taatcccagg agccaggga ggacaaaact tttctttaga atgtgtggga tttatccttg
accacacagt ttttttgttt tgttttgttt ttgttgttgt tgttgttttt gagatggagt
ctcgtctgtg cggccagggt ggagtgcagt ggcatgatct tggctcactg caagctccgc
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tgccaccaca cccagctaat tttttgtatt ttttagtaga gacgggggtt caccatgtta
gccgggatgg tctcgatctc ctgacctcgt gatccaccgc cttcggcctc ccaaagtgt

gagattacag gcgtgagcca ccatgcccag ctgaccacac agttttatac aaatctataa
gatggcctgg ccacatgcct tactacccat gtgaccacag aagctccaag ctaagaaata
aacatcaaaa atggccttag accagtctg cttaaggggc actgagtaaa agttctcaat
gtattttctga aaagaccacc tcaacccaag ctctctggag atgagttcac atatacagac
agaaaacaca aggaaatcat ccaccatgag caaaagacag cagagacaac aaacagcaga
attagatctt gcctggagat ccttaggtgg ataagatata ataagcatgt ttaacaatt
aaaaacacaa aagaaggaat tgtaagaagc aatagatgaa tggatgaatg gataggtgga
taaattggatg gatggatgga tgagtggatg gatggaagga tggttggatg atgggtggat
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
nnnnnnnnnn nnnnnnnnga gtgggtgggt ggatggatgg atggatggat ggatggatgg
atggacagat ggatgagtgg gtggatggat ggggtgggcag atggatcaat ggataggtgg
gtggatggat ggatggatgg ttgaatagat ggatgagtgg agggatggat ggatgaatgg
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gcagagggat gaatggatcc ctccattgag tgaatggatg ggtgagttag tgtgtggatg
gatggatgga tggatggatg gatggatgga tgggtggatg gatagatgtg tgggtgggtg
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tctccagggc ctgttctgct gaggcaccag gaaggaggcc ctccagagcca cacttagaaa
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tgagcataac aaaggacatg gaagaagatt ccagatgcca gaaaacctct gtcagacgcc
cactggcccc agatctcate ctgcctcate ctgagtccca atcttccaag ggtgccagcc
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cggtcgggtc tgcgtccttt cctgtgcctt tccctccaga atgcggcctc agcctagaa
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tactgctcc cccaaccag cgtcaggctg ggacacgcca acgctgttcc ggggtggaac
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gccacctgca ttcaaagctt ggaccagcgg gttcttgctc gggaggcaaa tttccctagg
aaaaagaaga cagacttttc taatgtgggtc caaatgcgga tcaactggtca gatggactct
agaagcactg agctccctgt ctctggaagt atttaagaaa aggtggggcc aggcacgatg
gctcacgcct gtaatcccag actttgggag gccgaggcag gcggatcacc tgagggtgagg
agtttgagaa cagcctggcc aacatggtga aacctcatct ctactaaaaa tacaaaaatt
agccaggcgt ggtggcagggt gcctgtaatc ccagctactt gggaggctga ggcattgagaa
tcaattaaac ctgagaggca gaggttacag tgagccaaga tcgtgccact gcattccagc
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tcatgcctgt aatcccagca ctctgggagg ctgaggtggg tggatcacct gaggtcagga
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gagcagacgg tgagtagggc gggcacattc tccaggccct tcttccatg ctctggttg
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tgaaagcgtc cagtgcattc tgacctgaga cagcaaggaa ttgcatttgg ggttattcca
acgatgatgg cagggaactg gtggtattta gtgctgaggg gcagtatac agaaagattt
gcctgtggg acagggtcct gcgcgagtc catcccaaaa agccagcagc tccctgcatg

aggaagacgg ggtttctgag caggcttatg cctgcagggtt cctgtggagc caccggctgt
gacgggacac ctctgggtct cagcattgcc ctggggaggc tgggacattt agggacatgg
tagggtttta acatttgttt cccaaatgtc aaatcccggg cacaggggca agaccctgtc
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gctgggtacg gtgggtcacg cctataatcc cagcactttg ggagaccgag acagggtggat
cacctgaggt caggagtctg agaccaggtt ggccaacatg gtgaaacccc atctctacta
aaaatacaaa aattagctgg gtgtgggtggc gcgcacctgt agtcccagct actcaggagg
ctgaggtaga agaatagtct gaaccagga ggcagagatt gcagtcagcc gagattgcac
cactgcactc cagcctggga gacagagcaa gactgactca aaagaaaaaa atgacagaa
gcctgattat cagactgccc ggaggagaca ggctccagca gatagatgcc agccaggccc
agctgccacg atttgtccca ggtgaccaa ggcacgcagc tccagcatga atcgttctaa
cccaacagt acaagaactg ctgggcctta accgtcatgg aagactgggg ccgcttccaa
gtcagagaca ggagacgggg acaggaaaga actcattcca cccaatcgga cacctaataa
ttgagtgtct acagcagcaa tcaagtgaca agtgaggccc tacctgacct agaaggtgcc
tgccggctaa acattctgcc cccaccagaa actccagggg gtccgcccgt tatgccgtgg
cccaccacg cccctttgga tcaccagcag tcacagacaa caggcaggcg aaactgaaga
ccccaaactc gccccagcgg accctccaga gcaaaagagg ccccgggcga ggccacctgt
cggcaggcat gccgaggtca aacagccggg gccaccgttc ccagctgggc caccacctgc
accgtccaca gatgggcttt gagatggatt tgtatcaggg tgggggggtgt ggtttggcca
aaatgcaatg gaccccgacc cctcctcgta aaaggatgtt gggtttccct ctggtgacac
atgggatgcg tcataaacc tccccaaag tctggtcag cagcccatcc ttccaacgat
gagttttgcg gtttttcaga acagaaatga tcaactacgat tgacgacggt cgtgatgtta
agacgtcgtc tccatgagct ttggggggac ttttatgttg aataaagaaa ctatcactg

Figure 12



1 ATCAY MGTTEATLRMENVDV KEEWQDEDLPRPLPE ETGVELLGSPVEDTS SPPNTLNFNGAHRKR KTLVAPEINISLDQ
 2 ATCAY(Maca)MGTTEATLRMENVDV KEEWQDEDLPRPLPE ETGVELLGSPVEDTS SPPNTLNFNGAHRKR KTLVAPDINISLDQ
 3 Atcay MGTTEATLRMENVDV RDEWQDEDLPRPLPE DTGVERLGGAVEDSS SPPSTLNLSGAHRKR KTLVAPEINISLDQ
 6 huKIAA0367 (N-term. end cut off!!)EDVGMDFP EEGV-LSPSAADMRP EPPNSLDLNDTHPRR IKLTAPNINLSLEQ
 7 mu0367homo (N-term. end cut off!!) MDIHF EEGV-LSPSAADMRP EPPNSLDLNGSHPRR IKLTAPNINLSLEQ
 4 BNIP2 -----MEGVEL KEEWQDEDFPIPLPE DDSIEADILAITGPE DQPGSLEVN-GNKVR KKLMAPDISLTLDP
 8 Bnip2 -----MEGVEL KEEWQDEDFPIPLPE DDSIEADTLGTDPD RQPGSLEVN-GNKVR KKLMAPDISLTLDP
 9 DrosCG11593 (N-term. end cut off - only C-terminal end aligned)

91 105 106 120 121 135 136 150 151 165
 1 ATCAY LDINVDIETPDETO SLEFLGNNGNELEWED DTPVATAKNMPGDSA DLFGDGTTEGGAAN GRLWRTVIIQEHE
 2 ATCAY(Maca)LDINVDIETPDETO SLEFLGNNGNELEWED DTPVATAKNMPGDSA DLFGDGTTEGGAAN GRLWRTVIIQEHE
 3 Atcay LDINVDIETPDETO SLEFLGNNGNELEWED DTPVATAKNMPGDSA DLFGDGSABEGGAAN GRLWRTVIIQEHE
 6 huKIAA0367 IDINVELDTPDEAD SPEYTG-----ED --PTAN-KDSGQSE SIPEYTAEER--ED NRLWRTVIIQEHE
 7 mu0367homo IDINVELDTPDEAD SPEYTNH-----ED --PTAN-KSSGQSE SIPEYTAEER--ED NRLWRTVIIQEHE
 4 BNIP2 GEIDLDGLDTPSE-- -----NSNEFEWED DLPKPKTTEVIRKG- SITEYTAAEEK--ED GRRNMFRIQEHE
 8 Bnip2 GEVDLEGLDTPSE-- -----NSDEFEWED DLPKPKTTEVIRKG- SITEYTATEEK--GD GRRNMFRIQEHE
 9 DrosCG11593 (N-term. end cut off - only C-terminal end aligned)YTAAESRR--D SRNWQKITLPDGR

181 195 196 210 211 225 226 240 241 25
 1 ATCAY GGYGEGLNAIIVFA ACFLPDSSLPDYHYI MENFLYVVISLELL VAEDYMIIVYLNATP RRRMPGIGWLKKCY
 2 ATCAY(Maca)GGYGEGLNAIIVFA ACFLPDSSLPDYHYI MENFLYVVISLELL VAEDYMIIVYLNATP RRRMPGIGWLKKCY
 3 Atcay GGYGEGLNAIIVFA ACFLPDSSSPDYHYI MENFLYVVISLELL VAEDYMIIVYLNATP RRRMPGIGWLKKCY
 6 huKIAA0367 GGYGEGLNAIIVFA ACFLPDSSRADYHYV MENFLYVISTLELM VAEDYMIIVYLNATP RRRMPGLGWMKKCY
 7 mu0367homo GGYGEGLNAIIVFA ACFLPDSSRADYHYV MENFLYVISTLELM VAEDYMIIVYLNATP RRRMPGLGWMKKCY
 4 BNIP2 GGYGEGLNAIIVFA VCFMPSSQPNRYL MDNLFKYVIGTLELL VAENYMIIVYLNATP RRRMPSLGLWLRKY
 8 Bnip2 GGYGEGLNAIIVFA VCFMPSSQPNRYL MDNLFKYVIGTLELL VAENYMIIVYLNATP RRRMPSLGLWLRKY
 9 DrosCG11593GGY GQNAIVIFC ACHLPDRSRARYSYV MDNLFYVVKTLQL VTDDYVLIYLGGSN RRVNPPFPWLRCY

Sec14/CRALTRIO domain

271 285 286 300 301 315 316 330 331 34
 1 ATCAY VHPSWFIRTVLAISR PFISVKPINKIQYVH SLEDLEQLIPMEHVQ IPDCVLQYEEERLKA RRRESARP-QPEFVL
 2 ATCAY(Maca)VHPSWFIRTVLAISR PFISVKPINKIQYVH SLEDLEQLIPMEHVQ IPDCVLQYEEERLKA RRRESARP-QPEFVM
 3 Atcay VHPSWFIRTVLAISR PFISVKFISKIQYVH SLEELERLIPMEHVQ LPDCVLQYEEERLKA KRESTRPPQPEFLL
 6 huKIAA0367 VHPSWFIRTVLAISR PFISVKFISKIQYVH SLEELERLIPMEHVQ LPDCVLQYEEERLKA KRESTRPPQPEFLL
 7 mu0367homo VHPSWFIRTVLAISR PFISVKFISKIQYVH SLEELERLIPMEHVQ LPDCVLQYEEERLKA KRESTRPPQPEFLL
 4 BNIP2 VHPSWFIRTVLAISR PFISVKFISKIQYVH SLEELERLIPMEHVQ LPDCVLQYEEERLKA KRESTRPPQPEFLL
 8 Bnip2 VHPSWFIRTVLAISR PFISVKFISKIQYVH SLEELERLIPMEHVQ LPDCVLQYEEERLKA KRESTRPPQPEFLL
 9 DrosCG11593VHPTFWIKSLVWMAR PFVSTKFWKLVVYV SLEELGMHVVEKAA IPEKVKQYD--AKRH

361 375
 1 ATCAY ALVSEDQETSMS human 19p13.3
 2 ATCAY(Maca)APVTEDQETSMS - -
 3 Atcay AEATEDQETSMS mouse 10
 6 huKIAA0367 ----- human 9q21
 7 mu0367homo ----- mouse 19 - 66 Mb
 4 BNIP2 ----- human 15q22
 8 Bnip2 ----- mouse 9 - 70 Mb

Figure 13

Figure 14

Genotypes

	◆	■	●	●	■	●	●	●	■	●	●	○
	10n	35	25	31	15	39	37	17	28	21	18	
D19S424	88	18	18	28	28	84	88	88	88	84	43	
D19S209	22	22	22	32	32	21	22	22	22	23	31	
A002R35	22	22	22	22	22	22	22	22	22	21	12	
A008X33	11	11	11	11	11	11	11	11	11	12	22	
21944ata	55	55	55	15	15	55	55	55	55	55	13	
HIBx4	11	11	11	11	11	11	11	11	11	11	12	
4K17CA1	11	11	11	11	11	11	11	11	11	11	36	
A004M07	22	22	22	22	22	22	22	22	--	22	12	
SH3GL1x3b	11	11	11	11	11	11	11	11	11	11	22	
D19S894	44	44	44	44	44	44	44	44	44	44	46	
16492ec1	22	22	22	22	22	22	22	22	22	22	11	
33083CA	11	11	11	11	11	11	11	11	11	11	33	
D19S216	33	33	33	33	33	33	33	33	33	33	25	
16601GT	11	11	11	11	11	11	11	11	11	11	36	
PTPRSx7	--	--	--	--	--	--	22	12	22	22	11	
31646ATA	33	33	33	33	33	33	33	33	33	33	14	
34296GT	22	22	22	22	22	22	22	22	22	22	23	
GAT A66B01*	44	44	44	44	44	44	43	44	42	42	25	
UT1057	33	33	33	33	33	33	33	43	35	35	46	
D19S534	11	11	11	11	11	11	13	11	13	13	32	

Figure 15

Table 2

Marker	Forward	Reverse	Alleles	Size
21944ata	ctggaactacaggaatgtacc	ttctgctcttgcttcacgg	5	411
4k17ca	tgtgttcacctactacctac	aaagaccaaagtctggcag	6	225
31646ata	aaatgcctcctgctgccttc	gatccaatgtgacatgccac	4	210
16601gt	caccagtgacagagaatcctt	tctctgggctgtgtgagagc	6	189
33083ca	atgacaagcactccagcctga	agcttgagtgagccgagat	3	206
16492ec1	gccgtttgacgtgcattgtt	agcaatatccgctcttcctg	2	187
PTPRSX7	gactcctagtgtctccct	cacacatagggacaaagag	2	266
A008X33	agacagagtaagacaaaacacc	gatttgagaagatgtcagttt	2	160
A002R35	tggcttattttctcatc	cacttgctgctgagactct	2	232
HIBx4	gcacgaaaacagactaatacgg	gttgcatcagacctctcc	2	185
XRRC1ca1	ccgatggatctacagttgca	tcttgatgagaaccaactc	6	159
ERRC1ca2	ttacaggagtgagccaccat	aggactcacaagtgggtg	7	215
ERRC2ca6	ttgtactcactgtgtgccag	tagtaagccaagatcactccc	4	244
79129ca	ttagaagcccgtgttggaac	ctgtgatttggagtggtg	7	207
282485ca3	tagtccagggattggcaa	gaagacgtaacatgtccag	2	319
282485ca4	agccctaatactcgttctg	gcaggttgagaataccttg	3	186
82621gt1	tctgctgtagtctctcttc	gactatgaaggagaaagta	6	151